



homiletical active fractions are isolated by gel filtration.

10. A composition for treating cancer cells comprising fungal hemolysin conjugated to an antibody for the cancer cell.

11. A vaccine to protect against infection by hemolysin producing fungi comprising an antigen or an active fragment, derivative, analog, or variant thereof to fungal hemolysin and a pharmaceutically acceptable carrier.

12. The vaccine according to claim 11 wherein the hemolysin producing fungi are selected from the group consisting of *Stachybotrys chartarum*, *Aspergillus fumigatus*, *Candida albicans*, and *Penicillium chrysogenum*.

13. A method for altering immune function in a mammal in need thereof comprising administering to said mammal an effective amount of a fungal hemolysin to alter immune function.

14. The method according to claim 13 wherein the fungal hemoglobin is obtained from a fungus selected from the group consisting of *Stachybotrys chartarum*, *Aspergillus fumigatus*, *Candida albicans*, and *Penicillium chrysogenum*.

15. A method for treating cancer comprising conjugating a fungal hemolysin to an antibody to the cancer cell and administering an effective amount of the conjugate to a patient in need thereof.

16. A composition for administration across the blood-brain barrier comprising a combination of a pore-forming

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fungal hemolysin and at least one pharmaceutically effective compound.

17. An antibacterial composition comprising an antibacterial amount of a fungal hemolysin.

18. An antifungal composition comprising an antifungal amount of a fungal hemolysin.

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